nycote AEROSPACE COATINGS

FUEL TANK COATING TECHNICAL INFORMATION

TO ENSURE PROTECTION AGAINST CORROSION & FUNGI

GENERAL INFORMATION

An extremely light nylon coating that adheres to titanium, stainless steel, aluminum & all other types of metal surfaces. NYCOTE® 7-11 is a clear modified nylon coating, resistant to all aircraft fuels, oils, lubricants, phosphate ester hydraulic fluids, and water. It can be stored for extended time without "gelling", unlike usual nylon solutions which solidify rapidly during storage. NYCOTE 7-11 has excellent adhesion to metals and other substrates, high impact and abrasion resistance, retaining flexibility and toughness at temperatures of -70ºF to +300º F (-57ºC to +149ºC).

AIRCRAFT FUEL

Aircraft integral fuel tanks have been internally coated to reduce leakage, corrosion and resistance to fungi. The cured product has a high impact and abrasion resistance, retaining flexibility and toughness even after exposure to aviation gas, jet fuels or skydrol.

PROCEDURE OF APPLICATION

A spray-gun is an effective device for application. It is necessary to thin the NYCOTE with Type II Thinner (Dilute up to 50%) to reduce "cobwebbing" before spraying.

NYCOTE may be applied by "Fill & Drain." An ordinary paint brush can also be useful tool to apply the solution.

DURABILITY

It is a single component clear liquid nylon sealant that has a working temperature from -70ºF to +300ºF (-57ºC to +149ºC). NYCOTE is an excellent protection against corrosion on freshly etched or solvent decreased metallic surfaces.

SHELF-LIFE

Temperature	Cloud	Gel
75º F	Min. 6 mo.	Min. 1 yr.
40º F	30 days	60 days
0º F	24 hrs.	5 days

DRYING

Allow film to become tack-free, approximately 1 hour, between repeat coats.

An auxiliary dryer may be used if more rapid drying is desired. Full cure achieved after 72 hours. Curing times can be accelerated with dry heat.

MAINTENANCE OF SOLUTION

Six month shelf life when stored at 70º-120ºF (21º-49ºC). NYCOTE should be clear at time of use. If the solution should gel or become cloudy, it can be restored to its original appearance by gentle warming.

This can be done easily by placing NYCOTE in a 70ºF (21ºC) plus temperature area for a short period of time.

BASE FLUID

Viscosity @ 65ºF (18ºC) Brookfield & Centipoises	35
Solids Content (Approx.)	19% (by weight)
Flash Point (Closed Cup)	70º F (21ºC)
Net Weight	7.2 lbs/gal

CURED FILM (7075-T6 Bare Aluminum)

Thickness (1 dip-coat)	0.5 mil.
Tack-Free (50% RH @ 70ºF)	1.0 hrs.
Film Pencil Hardness	"F"
Adhesion (Mil-S-4383)	22 lbs.
Abrasion : Resistance (500 Gr. #17 wheel-Rev. 100 cycles)	3.0 mgm.

RESISTANCE TO FLUIDS (1 wk. Immersion)

JP-4 JP-5 Kerosene Gasoline	No Adverse Effects
Skydrol 500A	No Adverse Effects
Water	Very slight absorption Film does not release Film retains toughness
100% RH @ 120ºF (49ºC)	No Adverse Effects
168 hr. Salt-spray	No Adverse Effects
80% JP-4 Bacteria Laden Distilled Water	No Adverse Effects

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